

**TITLE: COST-EFFECTIVE METHOD FOR PRODUCING SELF SUPPORTED PALLADIUM ALLOY
MEMBRANES FOR USE IN EFFICIENT PRODUCTION OF COAL DERIVED HYDROGEN**

QUARTERLY TECHNICAL PROGRESS REPORT

REPORTING PERIOD START DATE: 9/09/03 (PROGRAM START)

REPORTING PERIOD END DATE: 01/31/07

PRINCIPLE AUTHOR(S): K. COULTER

DATE REPORT WAS ISSUED: FEBRUARY 2007

DOE AWARD NUMBER: DE-FC26-03NT41849

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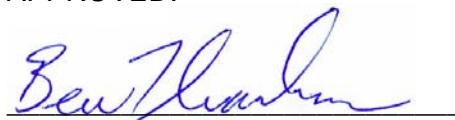
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ABSTRACT

In the past quarter, no technical work has been completed and two 'no cost' time extensions have been requested and granted to allow Idatech time to complete Task 5 relating to the testing of prototype membrane modules. The scheduled completion date of April 7, 2007 has been confirmed by Idatech.

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1.0 RESULTS AND DISCUSSION

There were no technical activities during this period. The outstanding pressure and purification testing at Idatech in a prototype module assembly was originally scheduled to be completed by January 31st. Following a discussion with DOE, an additional extension was requested and approved to provide Idatech with further time and a completion date of April 7, 2007.

1.1 Plans for Next Reporting Period:

- Idatech will have completed pressure and purification testing of at least one Southwest Research Institute[®] (SwRI[®])-manufactured membrane and test it in a prototype module assembly.
- SwRI will update a chapter in a book entitled “Inorganic Membranes for Energy and Fuel Applications.”
- SwRI will analyze any additional data and prepare a final report.

2.0 CONCLUSION

SwRI is continuing to monitor the progress of Idatech and prepare the final report.